

Name: \_\_\_\_\_

$$\geq (1 - \frac{1}{k^2})$$

The average amount of time users spent on a certain website was 12 minutes, with a standard deviation of 2 minutes. What percentage of users spent between 8 and 16 minutes on the website?

$$\mu = 12$$

$$\sigma = 2$$

$$16 = \mu + k\sigma$$

$$16 = 12 + k(2)$$

$$4 = k(2)$$

$$2 = k$$

$$1 - \frac{1}{k^2} = 1 - \frac{1}{2^2}$$

$$= 0.75$$

At least 75% of users spent between 8 and 16 minutes on the website.